

ANT-OMNI-2459-04 - Antenna

1284780

<https://www.phoenixcontact.com/us/products/1284780>

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Multiband omnidirectional antenna for freely mobile applications, compact design, frequency band: 2.4 GHz / 5 GHz / 6 GHz, gain: 2.0 dBi / 2.5 dBi / 3.0 dBi, degree of protection: IP68/IP69K, shock- and vibration-resistant, connection: N (male)

Your advantages

- Compact design
- Ideally suited for freely mobile applications with 2.4 GHz, 5 GHz, or 6 GHz
- Universal use with the wide frequency range
- Shock- and vibration-resistant

Commercial data

| | |
|--------------------------------------|---------------|
| Item number | 1284780 |
| Packing unit | 1 pc |
| Minimum order quantity | 1 pc |
| Sales key | DN23 |
| Product key | DNN2Z1 |
| GTIN | 4063151490621 |
| Weight per piece (including packing) | 49.6 g |
| Weight per piece (excluding packing) | 49.5 g |
| Customs tariff number | 85177100 |
| Country of origin | CN |

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Technical data

Notes

Note on application

| | |
|---------------------|-------------------------|
| Note on application | Only for industrial use |
|---------------------|-------------------------|

Product properties

| | |
|---------------------------|-------------------------------|
| Product type | Antenna |
| Radiation characteristics | Omnidirectional |
| Gain | 1.5 dBi (1.7 GHz ... 2.0 GHz) |
| | 2 dBi (2.0 GHz ... 2.7 GHz) |
| | 1.5 dBi (2.7 GHz ... 4.2 GHz) |
| | 2.5 dBi (4.9 GHz ... 5.9 GHz) |
| | 3 dBi (5.9 GHz ... 7.1 GHz) |
| Polarization | Linear vertical |

Electrical properties

| | |
|--|---------------------|
| Frequency band | 2.4 GHz |
| | 5 GHz |
| | 6 GHz |
| Frequency range | 1.7 GHz ... 7.1 GHz |
| Impedance | 50 Ω |
| Maximum capacity | 120.00 W |
| Voltage standing wave ratio VSWR in a 50 Ω system | ≤ 2.00 |

Connection data

Connection technology

| | |
|-------------------|----------|
| Connection method | N (male) |
|-------------------|----------|

Dimensions

| | |
|----------|-------|
| Length | 55 mm |
| Diameter | 22 mm |

Material specifications

| | |
|--|--|
| Color | black (RAL 9005) |
| Material | ASA, Acrylic ester styrene-acrylonitrile |
| Flammability rating according to UL 94 | HB |

Environmental and real-life conditions

Ambient conditions

| | |
|---------------------------------|------------------|
| Degree of protection | IP68/IP69K |
| Ambient temperature (operation) | -40 °C ... 85 °C |

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| | |
|---|------------------|
| Ambient temperature (storage/transport) | -40 °C ... 85 °C |
|---|------------------|

Approvals

Electronic devices in rail vehicles

| | |
|-----------------------|---|
| Shock (operation) | In accordance with EN 61373 (category 1, class B) |
| Vibration (operation) | In accordance with EN 61373 (category 1, class B) |

Standards and regulations

| | |
|--------------------------|-------------------------------------|
| Standards/specifications | EN 45545-2 |
| Note | Fire protection on railway vehicles |
| Standards/specifications | EN 50155 |
| Note | Railway application |

Mounting

| | |
|---------------|--------------------------|
| Mounting type | Control cabinet mounting |
| Assembly note | Accessories required |
| | Outdoors and indoors |

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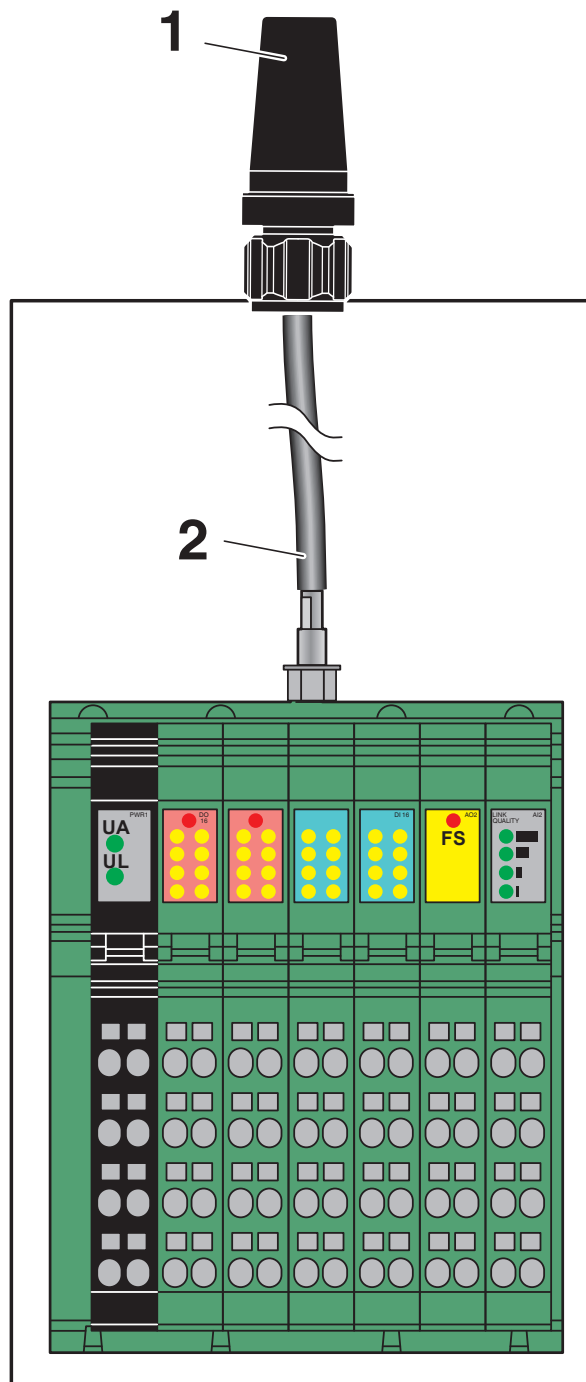
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Drawings

Schematic diagram



Installation example

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Classifications

ECLASS

| | |
|-------------|----------|
| ECLASS-13.0 | 19070105 |
| ECLASS-15.0 | 19070105 |

ETIM

| | |
|-----------|----------|
| ETIM 10.0 | EC001698 |
|-----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 21.0 | 43223100 |
|-------------|----------|

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Environmental product compliance

EU RoHS

| | |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

China RoHS

| | |
|--|---|
| Environment friendly use period (EFUP) | EFUP-25 |
| | An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required. |

EU REACH SVHC

| | |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

EF3.1 Climate Change

| | |
|---------|---------------|
| CO2e kg | 2.891 kg CO2e |
|---------|---------------|

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